

Title (en)

METHOD OF MANUFACTURING OBJECTS BY HOT PRESSING METAL POWDER IN A MOULD

Publication

EP 0238999 B1 19900704 (EN)

Application

EP 87103984 A 19870318

Priority

SE 8601324 A 19860321

Abstract (en)

[origin: EP0238999A1] A method of powder metallurgically manufacturing an article with near net shape is disclosed, the method comprising filling the mould cavity (3) of an open ceramic open mould (1), the inside walls of the cavity being precision copying cast surfaces (2), with fine particulate metal powder (5), placing the mould with its content of metal powder in an outer mould (6), and covering the ceramic open mould containing the metal powder with a bed of finely distributed particulate pressure medium (7), heating the bed of pressure medium and ceramic mould and particulate metal powder therein and subjecting the particulate pressure medium to pressure provided by at least one surface acting in an axial direction against the opening (4) of the ceramic mould, so that pressure is transferred by the particulate pressure medium to the metal powder in the mould to consolidate the metal powder to a completely dense body (21) with surfaces (22) which have been shaped by the precision cast surfaces of the mould cavity.

IPC 1-7

B22F 3/14

IPC 8 full level

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CPC (source: EP US)

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